



Fast showroom for fast cars

A Porsche dealership in Melbourne is impressing customers with its sleek showroom and state of the art workshops. The spectacular space in the eastern suburb of Doncaster also showcases the substantial benefits of offsite fabrication using precast concrete.

Laverton-based precaster and National Precast member Hollow Core Concrete was contracted for this project due to the small site with restricted access and the extremely tight timeline. The precaster had just three months to design, manufacture and construct.

Precast concrete integral to build

Precast concrete has been used throughout the building according to Hollow Core's Balint Djeri.

"Everything is precast except for the ground slabs and the footings. The project includes precast columns, beams, hollowcore precast floor planks and wall panels that are up to about 16 tonne in weight and 14 metres tall. Basically everything that is standing up is Hollow Core precast."

The showroom has four levels, which connect seamlessly in a stunning design - perfect to display luxury vehicles. The total prefabricated structure includes a suspended mezzanine ground floor plus three additional suspended levels, with hollowcore floor planks spanning up to 15 metres. The exposed roof is used for car parking. Three precast lift shafts provide access to all levels and include two car

Precast manufacturer

Hollow Core Concrete

Project Manager

Redeighteen Projects

Builder

Cam Contractor Group

Architect

Techne

Engineer

Klopfers Dobos

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lifts and a passenger lift. Architectural finishes have been applied at Hollow Core's factory to the external wall panels.

Offsite manufacture of this extensive list of elements resulted in a streamlined schedule, quality finishes and a safer onsite environment. About 10 workers were required on site instead of the usual 30 or 40 for a more conventionally constructed building.

Overcoming timing and site challenges

The site for the new showroom is just 1674 square metres, which created an added challenge of restricted access.

"There is an operational car park on one side, a trading car dealership on the other side and we were building from boundary to boundary," Mr Balint said. "We had to keep in mind not to disrupt the pedestrians nor the businesses on either side of us."

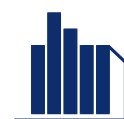
Despite the confined site, it took just 26 working days to install the prefabricated components. A conventional build would have taken an additional six months to complete. The design also eliminated the requirement to provide temporary formwork, which allowed following trades to start their work while construction continued.

Prefabricated precast: construction of the future

The construction of this prestige vehicle showroom demonstrates why use of prefabricated products is the construction method for the future. As a total precast structure, it was completed quickly and safely, with quality finishes. The precaster finished the build two days ahead of schedule, and on budget, resulting in a very happy client.

Watch the video!

Simply scan the QR Code or Google 'National Precast Australia Youtube' to view a new video about this project. Watch the project's progress and hear from the team.



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